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OM protein - protein search, using sw model

Run on: June 3, 2003, 15:05:33 ; Search time 15 seconds  
(without alignments)  
468.805 Million cell updates/sec

Title: US-09-887-784-4

Perfect score: 1274  
Sequence: 1 MWSKGEELFTGVVPLVLELDD.....VLGFTVTAAGITLGMDELYK 239

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

Total number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database :

Issued\_Patents\_AA.\*

- 1: /cgn2.6/prodata/1/laa/3A-COMB.pep.\*
- 2: /cgn2.6/prodata/1/laa/3B-COMB.pep.\*
- 3: /cgn2.6/prodata/1/laa/3A-COMB.pep.\*
- 4: /cgn2.6/prodata/1/laa/3B-COMB.pep.\*
- 5: /cgn2.6/prodata/1/laa/3C-COMB.pep.\*
- 6: /cgn2.6/prodata/1/laa/3D-COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1263	99.1	239	US-09-172-063-3	Sequence 3, Appl
2	1263	99.1	239	US-09-513-783A-46	Sequence 46, Appl
3	1263	99.1	239	US-09-316-919-4	Sequence 4, Appl
4	1263	99.1	281	US-09-062-102-1	Sequence 1, Appl
5	1263	99.1	281	US-09-364-946-1	Sequence 1, Appl
6	1263	99.1	294	US-09-513-783A-2	Sequence 2, Appl
7	1263	99.1	323	US-09-172-063-21	Sequence 21, Appl
8	1263	99.1	364	US-09-095-705-6	Sequence 6, Appl
9	1263	99.1	402	US-09-513-783A-70	Sequence 70, Appl
10	1263	99.1	642	US-08-818-253-2	Sequence 2, Appl
11	1263	99.1	642	US-08-818-253-6	Sequence 6, Appl
12	1263	99.1	642	US-08-818-253-2	Sequence 2, Appl
13	1263	99.1	642	US-08-818-253-6	Sequence 6, Appl
14	1263	99.1	652	US-08-818-253-4	Sequence 4, Appl
15	1263	99.1	652	US-08-818-253-4	Sequence 4, Appl
16	1263	99.1	783	US-09-513-783A-176	Sequence 176, App
17	1263	99.1	805	US-09-513-783A-178	Sequence 178, App
18	1263	99.1	890	US-09-513-783A-174	Sequence 174, App
19	1263	99.1	941	US-09-513-783A-172	Sequence 172, App
20	1263	99.1	1407	US-09-974-549A-628	Sequence 628, App
21	1260	98.9	239	US-09-121-539-14	Sequence 4, Appl
22	1259	98.8	239	US-09-513-783A-48	Sequence 48, Appl
23	1254	98.4	239	US-09-513-783A-32	Sequence 32, Appl
24	1254	98.4	1056	US-09-513-783A-22	Sequence 22, Appl
25	1254	98.4	1610	US-09-513-783A-22	Sequence 22, Appl
26	1249	98.0	247	US-08-893-327-18	Sequence 18, Appl
27	1248	98.0	238	US-08-893-327-16	Sequence 16, Appl

28 1248 98.0 239 4 US-09-172-063-4 Sequence 4, Appl  
29 1248 98.0 239 4 US-09-316-919-5 Sequence 5, Appl  
30 1248 98.0 255 4 US-09-172-063-20 Sequence 20, Appl  
31 1248 98.0 323 4 US-09-172-063-22 Sequence 22, Appl  
32 1247 97.9 238 1 US-08-337-915A-2 Sequence 2, Appl  
33 1247 97.9 238 4 US-09-121-539-1 Sequence 1, Appl  
34 1247 97.9 238 5 PCT-US95-14692-2 Sequence 2, Appl  
35 1247 97.9 239 3 US-08-646-538-2 Sequence 2, Appl  
36 1247 97.9 239 4 US-09-503-222-2 Sequence 2, Appl  
37 1245 97.7 239 4 US-09-094-783-6 Sequence 6, Appl  
38 1245 97.7 255 4 US-09-094-783-6 Sequence 6, Appl  
39 1245 97.7 255 4 US-09-094-783-6 Sequence 6, Appl  
40 1245 97.7 541 4 US-09-513-783A-14 Sequence 14, Appl  
41 1245 97.7 541 4 US-09-513-783A-34 Sequence 34, Appl  
42 1245 97.7 656 2 US-08-818-253-8 Sequence 8, Appl  
43 1245 97.7 812 4 US-09-513-783A-4 Sequence 4, Appl  
44 1245 97.7 812 4 US-09-513-783A-6 Sequence 6, Appl  
45 1244 97.6 1070 4 US-09-091-042A-2 Sequence 2, Appl

#### ALIGNMENTS

RESULT 1  
US-09-172-063-3  
; Sequence 3, Application US/09172063  
; Patent No. 6150176  
; GENERAL INFORMATION:  
; APPLICANT: Tsien, Roger Y.  
; APPLICANT: Miyawaki, Atsushi  
; APPLICANT: Zlotopis, Juan  
; APPLICANT: Pachter, Rebekka M.  
; TITLE: INVENTION: FLUORESCENT PROTEIN SENSORS FOR  
; TITLE OF INVENTION: MEASURING THE PH OF A BIOLOGICAL SAMPLE  
; FILE REFERENCE: 07257/071001  
; CURRENT APPLICATION NUMBER: US/09/172,063  
; CURRENT FILING DATE: 1998-10-13  
; EARLIER APPLICATION NUMBER: 09/094,359  
; EARLIER FILING DATE: 1998-06-09  
; NUMBER OF SEQ ID NOS: 38  
; SOFTWARE: FastSeq for Windows Version 4.0  
; SEQ ID NO 3  
; LENGTH: 239  
; TYPE: PRT  
; ORGANISM: Aequorea victoria  
; FEATURE:  
; NAME/KEY: VARIANT  
; LOCATION: (0)...(0)  
; OTHER INFORMATION: EGFP  
US-09-172-063-3

Query Match 99.18; Score 1263; DB 4; Length 239;  
Best Local Similarity 99.28; Pred No 1,28,127;  
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MWSKGEELFTGVVPLVLELDDVNGHKFSVSGEGDATYGLKTLKFICTTGKLPVPMPT 60  
1 MWSKGEELFTGVVPLVLELDDVNGHKFSVSGEGDATYGLKTLKFICTTGKLPVPMPT 60  
Db 61 LVTTLSYGVCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVFGSDTL 120  
61 LVTTLSYGVCFSRYPDHMKQHDFFKSAPEGYVOERTIFFKDDGNYKTRAEVFGSDTL 120  
QY 121 VNRLEKIDFKEDGNILGHKLEYNHNHYVIMADKQNGIKYFKIHNIEDGSVQLA 180  
121 VNRLEKIDFKEDGNILGHKLEYNHNHYVIMADKQNGIKYFKIHNIEDGSVQLA 180  
Db 121 VNRLEKIDFKEDGNILGHKLEYNHNHYVIMADKQNGIKYFKIHNIEDGSVQLA 180  
QY 181 DRYQONTPTGDPVLLPNHLYSTQSALSKDPNEKROHVVLLGFVTAAITGLMDELYK 239  
181 DRYQONTPTGDPVLLPNHLYSTQSALSKDPNEKROHVVLLGFVTAAITGLMDELYK 239  
Db 181 DRYQONTPTGDPVLLPNHLYSTQSALSKDPNEKROHVVLLGFVTAAITGLMDELYK 239

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RESULT 2
US-09-513-783A-46
; Sequence 46, Application US/09513783A
; Patent No. 6416959
; GENERAL INFORMATION:
; APPLICANT: Giuliano, Kenneth A.
; APPLICANT: Rapur, Ravi
; TITLE OF INVENTION: A System for Cell Based Screening
; FILE REFERENCE: 97-022-L1
; CURRENT APPLICATION NUMBER: US/09/513,783A
; CURRENT FILING DATE: 2000-02-25
; EARLIER FILING DATE: 186
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 46
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: EGFP
US-09-513-783A-46

Query Match          99.1%; Score 1263; DB 4; Length 239;
Best Local Similarity 99.2%; Pred. No. 1.2e-127;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGEELFTGVPIVLVDGVDVNGHKFSVSGEGDATYGKLTAKFICTTGKLPVPMPT 60
   |||||
DB 1 MYSKGEELFTGVPIVLVDGVDVNGHKFSVSGEGDATYGKLTAKFICTTGKLPVPMPT 60

QY 61 LVTTLSYGVQCFSRYPDMKQHDFFKSAMPSGYVOERTIFFKDDGNTKTRAEVKFEGDTL 120
   |||||
DB 61 LVTTLSYGVQCFSRYPDMKQHDFFKSAMPSGYVOERTIFFKDDGNTKTRAEVKFEGDTL 120

QY 121 VNRTELKGI DFKEDGNILGHKLEYNSHNYIMADKOKNGIKVNFIRHNIEDGSVOLA 180
   |||||
DB 121 VNRTELKGI DFKEDGNILGHKLEYNSHNYIMADKOKNGIKVNFIRHNIEDGSVOLA 180

QY 181 DHYOONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHVLFGVTAAGTILGMDELYK 239
   |||||
DB 181 DHYOONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHVLFGVTAAGTILGMDELYK 239

RESULT 3
US-09-316-919-4
; Sequence 4, Application US/09316919
; Patent No. 6469194
; GENERAL INFORMATION:
; APPLICANT: Brier, Geoffrey
; APPLICANT: Brier, Geoffrey
; TITLE OF INVENTION: FLUORESCENT PROTEIN INDICATORS
; FILE REFERENCE: 07257/073001
; CURRENT APPLICATION NUMBER: US/09/316,919
; CURRENT FILING DATE: 1999-05-21
; NUMBER OF SEQ ID NOS: 63
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 239
; TYPE: PRT
; ORGANISM: Aequorea victoria
US-09-316-919-4

Query Match          99.1%; Score 1263; DB 4; Length 239;
Best Local Similarity 99.2%; Pred. No. 1.2e-127;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGEELFTGVPIVLVDGVDVNGHKFSVSGEGDATYGKLTAKFICTTGKLPVPMPT 60
   |||||
DB 1 MYSKGEELFTGVPIVLVDGVDVNGHKFSVSGEGDATYGKLTAKFICTTGKLPVPMPT 60

QY 61 LVTTLSYGVQCFSRYPDMKQHDFFKSAMPSGYVOERTIFFKDDGNTKTRAEVKFEGDTL 120
   |||||
DB 61 LVTTLSYGVQCFSRYPDMKQHDFFKSAMPSGYVOERTIFFKDDGNTKTRAEVKFEGDTL 120

RESULT 4
US-09-062-102-1
; Sequence 1, Application US/09062102
; Patent No. 6130113
; GENERAL INFORMATION:
; APPLICANT: Kain, Steve
; APPLICANT: Li, Xiangqiang
; TITLE OF INVENTION: Rapidly Degrading GFP-Fusion Proteins and Methods
; FILE REFERENCE: D6100
; CURRENT APPLICATION NUMBER: US/09/062,102
; CURRENT FILING DATE: 1998-04-17
; EARLIER FILING DATE: 1997-10-02
; NUMBER OF SEQ ID NOS: 3
; SEQ ID NO 1
; LENGTH: 281
; TYPE: PRT
; ORGANISM: artificial sequence
; FEATURE:
; OTHER INFORMATION: Sequence of the EGFP-WDCC422-461 fusion protein.
US-09-062-102-1

Query Match          99.1%; Score 1263; DB 4; Length 281;
Best Local Similarity 99.2%; Pred. No. 1.6e-127;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGEELFTGVPIVLVDGVDVNGHKFSVSGEGDATYGKLTAKFICTTGKLPVPMPT 60
   |||||
DB 1 MYSKGEELFTGVPIVLVDGVDVNGHKFSVSGEGDATYGKLTAKFICTTGKLPVPMPT 60

QY 61 LVTTLSYGVQCFSRYPDMKQHDFFKSAMPSGYVOERTIFFKDDGNTKTRAEVKFEGDTL 120
   |||||
DB 61 LVTTLSYGVQCFSRYPDMKQHDFFKSAMPSGYVOERTIFFKDDGNTKTRAEVKFEGDTL 120

QY 121 VNRTELKGI DFKEDGNILGHKLEYNSHNYIMADKOKNGIKVNFIRHNIEDGSVOLA 180
   |||||
DB 121 VNRTELKGI DFKEDGNILGHKLEYNSHNYIMADKOKNGIKVNFIRHNIEDGSVOLA 180

QY 181 DHYOONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHVLFGVTAAGTILGMDELYK 239
   |||||
DB 181 DHYOONTPIGDGPVLLPDNHYLSTQSALS KDPNEKRDMHVLFGVTAAGTILGMDELYK 239

RESULT 5
US-09-364-946-1
; Sequence 1, Application US/09364946
; Patent No. 6306600
; GENERAL INFORMATION:
; APPLICANT: Kain, Steve
; APPLICANT: Li, Xiangqiang
; TITLE OF INVENTION: Rapidly Degrading GFP-Fusion Proteins and Methods
; FILE REFERENCE: D6100C1P/D2
; CURRENT APPLICATION NUMBER: US/09/364,946
; CURRENT FILING DATE: 1998-07-02
; EARLIER FILING DATE: NUMBER: US 09/191,233
; NUMBER OF SEQ ID NOS: 14
; SEQ ID NO 1
; LENGTH: 281
; TYPE: PRT
; ORGANISM: artificial sequence

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; FEATURE:
; OTHER INFORMATION: Sequence of the EGFP-MODC422-461 fusion protein.
; Patent No. 6306600
US-09-364-946-1

Query Match
Best Local Similarity 99.18; Score 1263; DB 4; Length 281;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGELFTGVVPIVLVDGVDVNGHFKFSVSGEGDATYKGLTKLFCTTGKLPVWPT 60
DB 1 MYSKGELFTGVVPIVLVDGVDVNGHFKFSVSGEGDATYKGLTKLFCTTGKLPVWPT 60

QY 61 LVTTLSYGVCFSRYPDHMKQHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVFECDTL 120
DB 61 LVTTLSYGVCFSRYPDHMKQHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVFECDTL 120

QY 121 VNRLEKIDFKEDNGILGHKLEYNYSNHYIMADKQKNGIKVNFKRHNIEDGSVOLA 180
DB 121 VNRLEKIDFKEDNGILGHKLEYNYSNHYIMADKQKNGIKVNFKRHNIEDGSVOLA 180

QY 181 DHYQONTPIGDGVPVLLPNHLYSTOSALSKDPEKRDHNVLLFEVTAAGITLGMDELYK 239
DB 181 DHYQONTPIGDGVPVLLPNHLYSTOSALSKDPEKRDHNVLLFEVTAAGITLGMDELYK 239

RESULT 6
US-09-513-783A-2
; Sequence 2, Application US/09513783A
; Patent No. 6416959
; GENERAL INFORMATION:
; APPLICANT: Giuliani, Kenneth A.
; APPLICANT: Kaput, Ravi
; TITLE OF INVENTION: System for Cell Based Screening
; FILE REFERENCE: 97-022,717
; CURRENT APPLICATION NUMBER: US/09/513,783A
; CURRENT FILING DATE: 2000-02-25
; NUMBER OF SEQ ID NOS: 180
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 294
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: GFP-DEVD-Anexin II construct
US-09-513-783A-2

Query Match
Best Local Similarity 99.18; Score 1263; DB 4; Length 294;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGELFTGVVPIVLVDGVDVNGHFKFSVSGEGDATYKGLTKLFCTTGKLPVWPT 60
DB 1 MYSKGELFTGVVPIVLVDGVDVNGHFKFSVSGEGDATYKGLTKLFCTTGKLPVWPT 60

QY 61 LVTTLSYGVCFSRYPDHMKQHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVFECDTL 120
DB 61 LVTTLSYGVCFSRYPDHMKQHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVFECDTL 120

QY 121 VNRLEKIDFKEDNGILGHKLEYNYSNHYIMADKQKNGIKVNFKRHNIEDGSVOLA 180
DB 121 VNRLEKIDFKEDNGILGHKLEYNYSNHYIMADKQKNGIKVNFKRHNIEDGSVOLA 180

QY 181 DHYQONTPIGDGVPVLLPNHLYSTOSALSKDPEKRDHNVLLFEVTAAGITLGMDELYK 239
DB 181 DHYQONTPIGDGVPVLLPNHLYSTOSALSKDPEKRDHNVLLFEVTAAGITLGMDELYK 239

RESULT 7
US-09-172-063-21
; Sequence 21, Application US/09172063
; Patent No. 6150176

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; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Miyawaki, Atsushi
; APPLICANT: Lippman, David
; APPLICANT: Wocher, Rebekka M.
; APPLICANT: Remington, S. James
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR
; FILE REFERENCE: 07257/071001
; TITLE OF INVENTION: MEASURING THE PH OF A BIOLOGICAL SAMPLE
; CURRENT APPLICATION NUMBER: US/09/172,063
; CURRENT FILING DATE: 1998-10-13
; EARLIER APPLICATION NUMBER: 09/094,359
; EARLIER FILING DATE: 1998-06-09
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 21
; LENGTH: 223
; TYPE: PRT
; ORGANISM: Aquorea victoria
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (0)...(0)
; OTHER INFORMATION: GT-EGFP
US-09-172-063-21

Query Match 99.18; Score 1263; DB 4; Length 323;
Best Local Similarity 99.28; Pred. No. 1.9e-127;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGELFTGVVPIVLVDGVDVNGHFKFSVSGEGDATYKGLTKLFCTTGKLPVWPT 60
DB 85 MYSKGELFTGVVPIVLVDGVDVNGHFKFSVSGEGDATYKGLTKLFCTTGKLPVWPT 144

QY 61 LVTTLSYGVCFSRYPDHMKQHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVFECDTL 120
DB 145 LVTTLSYGVCFSRYPDHMKQHDFFKSAMPEGYQERTIFFKDDGNYKTRAEVFECDTL 204

QY 121 VNRLEKIDFKEDNGILGHKLEYNYSNHYIMADKQKNGIKVNFKRHNIEDGSVOLA 180
DB 205 VNRLEKIDFKEDNGILGHKLEYNYSNHYIMADKQKNGIKVNFKRHNIEDGSVOLA 264

QY 181 DHYQONTPIGDGVPVLLPNHLYSTOSALSKDPEKRDHNVLLFEVTAAGITLGMDELYK 239
DB 265 DHYQONTPIGDGVPVLLPNHLYSTOSALSKDPEKRDHNVLLFEVTAAGITLGMDELYK 323

RESULT 8
US-09-085-305-6
; Sequence 6, Application US/09085305
; Patent No. 6191269
; GENERAL INFORMATION:
; APPLICANT: Pollock, Allan
; APPLICANT: Lovett, David H.
; APPLICANT: Turck, Johanna
; TITLE OF INVENTION: Selective Induction of Apoptosis in
; TITLE OF INVENTION: Malignant Cancer Cells by Delivery of N-Terminal
; TITLE OF INVENTION: Interleukin-1-Alpha Pro-Piece Polypeptide
; NUMBER OF SEQUENCES: 30
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pozicevic & Reed, LLP
; STREET: 285 Hamilton Ave, Suite 200
; CITY: Palo Alto
; STATE: CA
; COUNTRY: USA
; ZIP: 94301
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/085,305
; FILING DATE: 29-MAY-1998

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CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Francis, Carol L. 513
REFERENCE/BOOK NUMBER: 6510/102U51
TELECOMMUNICATION INFORMATION:
TELEPHONE: 650-327-3400
TELEFAX: 650-327-3231
TELEX:
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 364 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-085-305-6

Query Match
Best Local Similarity 99.1%; Score 1263; DB 4; Length 364;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGEELFTGVVPIVLVDGDNVGHKFSVSGEGDATYKGLTKLFICTTGKLPVPWPT 60
DB 126 MYSKGEELFTGVVPIVLVDGDNVGHKFSVSGEGDATYKGLTKLFICTTGKLPVPWPT 185
QY 61 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120
DB 186 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 245
QY 121 VNRTELKGDIFKEDGNILGHKLEYNNSHNYIMADKQNGIKYKFKIRHNIEDGSVQLA 180
DB 246 VNRTELKGDIFKEDGNILGHKLEYNNSHNYIMADKQNGIKYKFKIRHNIEDGSVQLA 305
QY 181 DRYQONTPTGDPVLLPDNHYLSTQSALSNDPNKRDHNVLLGFVTAAGTTLGNDLYK 239
DB 306 DRYQONTPTGDPVLLPDNHYLSTQSALSNDPNKRDHNVLLGFVTAAGTTLGNDLYK 364

RESULT 9
US-09-513-783A-170
Patent No. 6415359
GENERAL INFORMATION:
APPLICANT: Giuliano, Kenneth A.
TITLE OF INVENTION: A System for Cell Based Screening
FILE REFERENCE: 97-022-11
CURRENT APPLICATION NUMBER: US/09/513.783A
CURRENT FILING DATE: 2000-02-25
NUMBER OF SEQ ID NOS: 180
SOFTWARE: 170 Patent In Ver. 2.0
SEQ ID NO 170
LENGTH: 459
TYPE: PEPTIDE
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: GFP-HSP27
US-09-513-783A-170

Query Match
Best Local Similarity 99.1%; Score 1263; DB 4; Length 459;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGEELFTGVVPIVLVDGDNVGHKFSVSGEGDATYKGLTKLFICTTGKLPVPWPT 60
DB 1 MYSKGEELFTGVVPIVLVDGDNVGHKFSVSGEGDATYKGLTKLFICTTGKLPVPWPT 120
QY 61 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 239
DB 61 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 305

US-08-818-253-2
Sequence 2, Application US/08818253
Patent No. 5998204
GENERAL INFORMATION:
APPLICANT: Tsien, Roger Y.
APPLICANT: Miyawaki, Atsushi
TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR DETECTION OF ANALYTES
TITLE OF INVENTION: DETECTION OF ANALYTES
NUMBER OF SEQUENCES: 61
CONSEQUENCE ADDRESS:
ADDRESS: Fiala & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows 95
HARDWARE: 386 or Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/818.253
FILING DATE: 14-MAR-1997
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Halle, Ph.D., Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 07257/043001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/458-5090
TELEX: 619458-5090
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 642 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-08-818-253-2

Query Match
Best Local Similarity 99.1%; Score 1263; DB 2; Length 642;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGEELFTGVVPIVLVDGDNVGHKFSVSGEGDATYKGLTKLFICTTGKLPVPWPT 60
DB 404 MYSKGEELFTGVVPIVLVDGDNVGHKFSVSGEGDATYKGLTKLFICTTGKLPVPWPT 463
QY 61 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120
DB 464 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 523
QY 121 VNRTELKGDIFKEDGNILGHKLEYNNSHNYIMADKQNGIKYKFKIRHNIEDGSVQLA 180
DB 524 VNRTELKGDIFKEDGNILGHKLEYNNSHNYIMADKQNGIKYKFKIRHNIEDGSVQLA 583
QY 181 DRYQONTPTGDPVLLPDNHYLSTQSALSNDPNKRDHNVLLGFVTAAGTTLGNDLYK 239
DB 584 DRYQONTPTGDPVLLPDNHYLSTQSALSNDPNKRDHNVLLGFVTAAGTTLGNDLYK 642

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RESULT 11
US-08-818-253-6
; Sequence 6, Application US/08818252B
; Patent No. 6197928
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Miyawaki, Atsushi
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR
; TITLE OF INVENTION: DETECTION OF ANALYTES
; NUMBER OF SEQUENCES: 61
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER-READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: Windows 95
; SOFTWARE: FastSeq for Windows Version 2.0b
; CURRENT APPLICATION NUMBER: US/08/818,253
; FILING DATE: 14-MAR-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Halle, Ph.D., Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 07257/043001
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 642 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; FRAGMENT TYPE: internal
; US-08-818-253-6

Query Match          99.1%; Score 1263; DB 2; Length 642;
Best Local Similarity 99.2%; Pred. No. 5.4e-127;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGEELFTGVPIILVELDGDVNGHKFSVSGEGDATYKGLTFLKFTCTGKLPVPWPT 60
DB 404 MYSKGEELFTGVPIILVELDGDVNGHKFSVSGEGDATYKGLTFLKFTCTGKLPVPWPT 463
QY 61 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120
DB 464 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 523
QY 121 VNRLEKGDIFKEDGNILGHKLEYNSHNHYIMADKQNGIKYVKFIRHNIEDGSVOLA 180
DB 524 VNRLEKGDIFKEDGNILGHKLEYNSHNHYIMADKQNGIKYVKFIRHNIEDGSVOLA 583
QY 181 DHYQONTPIGGPVLPPDNHYLSTQSALSKDPNEKRDNHVLLEFVTAAGITLGDDELTK 239
DB 584 DHYQONTPIGGPVLPPDNHYLSTQSALSKDPNEKRDNHVLLEFVTAAGITLGDDELTK 642

RESULT 12
US-08-818-252-6
; Sequence 2, Application US/08818252B
; Patent No. 6197928
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Miyawaki, Atsushi
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR
; TITLE OF INVENTION: DETECTION OF ANALYTES
; FILE REFERENCE: 07257/042001
; CURRENT APPLICATION NUMBER: US/08/818,252B
; CURRENT FILING DATE: 1997-03-14
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 5
; LENGTH: 642
; TYPE: PRT
; ORGANISM: Aequorea victoria
; US-08-818-252-6

Query Match          99.1%; Score 1263; DB 4; Length 642;
Best Local Similarity 99.2%; Pred. No. 5.4e-127;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGEELFTGVPIILVELDGDVNGHKFSVSGEGDATYKGLTFLKFTCTGKLPVPWPT 60
DB 404 MYSKGEELFTGVPIILVELDGDVNGHKFSVSGEGDATYKGLTFLKFTCTGKLPVPWPT 463
QY 61 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120
DB 464 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 523
QY 121 VNRLEKGDIFKEDGNILGHKLEYNSHNHYIMADKQNGIKYVKFIRHNIEDGSVOLA 180
DB 524 VNRLEKGDIFKEDGNILGHKLEYNSHNHYIMADKQNGIKYVKFIRHNIEDGSVOLA 583
QY 181 DHYQONTPIGGPVLPPDNHYLSTQSALSKDPNEKRDNHVLLEFVTAAGITLGDDELTK 239
DB 584 DHYQONTPIGGPVLPPDNHYLSTQSALSKDPNEKRDNHVLLEFVTAAGITLGDDELTK 642
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; APPLICANT: Miyawaki, Atsushi
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR
; TITLE OF INVENTION: DETECTION OF ANALYTES
; FILE REFERENCE: 07257/042001 US/08/818,252B
; CURRENT APPLICATION NUMBER: US/08/818,252B
; FILING DATE: 1997-03-14
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 2
; LENGTH: 642
; TYPE: PRT
; ORGANISM: Aequorea victoria
; US-08-818-252-2

Query Match          99.1%; Score 1263; DB 4; Length 642;
Best Local Similarity 99.2%; Pred. No. 5.4e-127;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGEELFTGVPIILVELDGDVNGHKFSVSGEGDATYKGLTFLKFTCTGKLPVPWPT 60
DB 404 MYSKGEELFTGVPIILVELDGDVNGHKFSVSGEGDATYKGLTFLKFTCTGKLPVPWPT 463
QY 61 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120
DB 464 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 523
QY 121 VNRLEKGDIFKEDGNILGHKLEYNSHNHYIMADKQNGIKYVKFIRHNIEDGSVOLA 180
DB 524 VNRLEKGDIFKEDGNILGHKLEYNSHNHYIMADKQNGIKYVKFIRHNIEDGSVOLA 583
QY 181 DHYQONTPIGGPVLPPDNHYLSTQSALSKDPNEKRDNHVLLEFVTAAGITLGDDELTK 239
DB 584 DHYQONTPIGGPVLPPDNHYLSTQSALSKDPNEKRDNHVLLEFVTAAGITLGDDELTK 642

RESULT 13
US-08-818-252-6
; Sequence 6, Application US/08818252B
; Patent No. 6197928
; GENERAL INFORMATION:
; APPLICANT: Tsien, Roger Y.
; APPLICANT: Miyawaki, Atsushi
; TITLE OF INVENTION: FLUORESCENT PROTEIN SENSORS FOR
; TITLE OF INVENTION: DETECTION OF ANALYTES
; FILE REFERENCE: 07257/042001
; CURRENT APPLICATION NUMBER: US/08/818,252B
; CURRENT FILING DATE: 1997-03-14
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 5
; LENGTH: 642
; TYPE: PRT
; ORGANISM: Aequorea victoria
; US-08-818-252-6

Query Match          99.1%; Score 1263; DB 4; Length 642;
Best Local Similarity 99.2%; Pred. No. 5.4e-127;
Matches 237; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 1 MYSKGEELFTGVPIILVELDGDVNGHKFSVSGEGDATYKGLTFLKFTCTGKLPVPWPT 60
DB 404 MYSKGEELFTGVPIILVELDGDVNGHKFSVSGEGDATYKGLTFLKFTCTGKLPVPWPT 463
QY 61 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 120
DB 464 LVTTLSYGVCFSRYPDHMKQDFFKSAPEGYVOERTIFFKDDGNYKTRAEVKFEGDTL 523
QY 121 VNRLEKGDIFKEDGNILGHKLEYNSHNHYIMADKQNGIKYVKFIRHNIEDGSVOLA 180
DB 524 VNRLEKGDIFKEDGNILGHKLEYNSHNHYIMADKQNGIKYVKFIRHNIEDGSVOLA 583
QY 181 DHYQONTPIGGPVLPPDNHYLSTQSALSKDPNEKRDNHVLLEFVTAAGITLGDDELTK 239
DB 584 DHYQONTPIGGPVLPPDNHYLSTQSALSKDPNEKRDNHVLLEFVTAAGITLGDDELTK 642
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